

Cochise + Santa Cruz + Graham + Greenlee TERM Report

Training & Education Resource Model

Score = average of the five percentiles, using weights 3, 3, 1, 1, 1
see notes for explanations of each column

Rank	CIP Code	CIP Title	Percentiles						Labor Market Data					BLS Ed & Train Code
			Score	Openings	Wage	ONET	Growth rate	Turn over ratio	Openings	Hourly Wage	ONET Score	Growth Rate %	Turn over ratio	
1	51.16	Nursing	79.2	78	91	87	48	70	68	19.58	654	6.5	1.9	7.0
2	43.01	Criminal Justice and Corrections	77.3	70	96	83	61	57	37	21.15	650	7.2	1.5	9.0
3	46.04	Building/Construction Finishing, Management, and Inspection	73.9	74	74	65	83	74	50	14.04	596	8.6	2.3	10.0
4	46.02	Carpenters	71.7	63	83	52	78	78	29	17.33	497	8.4	2.8	9.0
5	46.05	Plumbing and Related Water Supply Services	66.4	54	70	70	91	65	28	13.86	598	9.1	1.7	9.9
6	52.04	Business Operations Support and Assistant Services	63.8	91	35	22	87	87	179	10.10	453	9.0	2.9	10.3
7	49.02	Ground Transportation	63.3	83	78	17	26	43	70	14.97	451	4.3	1.3	10.0
8	46.03	Electrical and Power Transmission Installers	61.1	33	87	91	39	61	16	19.13	695	6.3	1.7	9.0
9	51.15	Mental and Social Health Services and Allied Professions	56.3	20	65	61	96	96	12	12.79	581	13.0	3.8	10.0
10	52.03	Accounting and Related Services	48.1	54	61	35	17	35	28	12.07	468	3.4	1.0	10.0
11	52.02	Business Administration, Management and Operations	47.3	4	100	96	9	9	11	23.44	736	2.3	0.5	8.0
12	1.06	Applied Horticulture/Horticultural Business Services	46.9	87	30	9	30	30	86	9.55	431	4.5	0.9	11.0
13	52.08	Finance and Financial Management Services	44.9	43	48	39	74	17	26	11.23	471	7.8	0.7	11.0
14	46.99	Construction Trades, Other	44.7	63	26	0	52	83	29	9.29	354	7.0	2.9	10.0
15	43.02	Fire Protection	44.2	20	52	100	43	39	12	11.80	753	6.4	1.2	9.0
16	51.26	Health Aides/Attendants/Orderlies	43.5	13	39	78	65	91	12	10.21	615	7.3	3.2	11.0
17	1.01	Agricultural Business and Management	43.0	4	57	4	100	100	11	11.92	399	17.5	6.0	10.0
18	52.18	General Sales, Merchandising and Related Marketing Operations (NEW)	42.5	96	13	48	4	4	267	8.41	495	1.6	0.1	11.0
19	12.05	Culinary Arts and Related Services	42.0	100	0	30	35	13	347	6.72	464	5.8	0.6	10.9
20	51.06	Dental Support Services and Allied Professions	35.7	4	43	74	57	48	11	10.42	598	7.1	1.3	10.0

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Rank	CIP Code	CIP Title	P e r c e n t i l e s						Labor Market Data					BLS Ed & Train Code
			Score	Open-ings	Wage	ONET	Growth rate	Turn over ratio	Open-ings	Hourly Wage	ONET Score	Growth Rate %	Turn over ratio	
21	51.07	Health and Medical Administrative Services	34.3	26	22	43	70	52	14	8.80	476	7.4	1.4	11.0
22	13.15	Teaching Assistants/Aides	27.5	48	17	13	13	26	27	8.66	436	2.8	0.8	11.0
23	19.07	Human Development, Family Studies, and Related Services	24.9	33	9	57	22	22	16	8.01	555	4.2	0.7	11.0
24	1.03	Agricultural Production Operations	17.4	39	4	26	0	0	22	7.90	460	-1.7	0.0	11.0

Explanations for Each Column of the TERM Report		
Column		Explanation
A	Rank	This is the rank of the CIP (Classification of Instructional Program) by percentile score as shown in column D. Tie scores get tie ranks. Sometimes scores appear to be a tie, but if carried out to more decimal places, are not. Such CIPs are not assigned tie ranks.
B	CIP Code	CIP (Classification of Instructional Programs) code as assigned by the U.S. Department of Education. See Sources note below for more details.
C	CIP Title	The title of the training program, as assigned by the U.S. Department of Education Classification of Instructional Programs.
D	Score	The score is a weighted average of columns E through I. The weights used are 3, 3, 1, 1, 1, respectively. See Calculation Method note below for more details.
E-I	Percentiles	These 5 columns are the percentile scores of the data in columns J through N. Percentiles scores are used to compute different types of data in the model. For example, wages in dollars and growth in percentages. Tie scores produce tie percentiles.
J	Openings	The projected number of openings expected per year for the occupations within this CIP. If an occupation is contained in more than one CIP, its openings are distributed evenly among those CIPs. Projected openings based on 2004-2006 occupation projections.
K	Hourly Wage	The average of the wages of the occupations contained in this CIP, weighted by the number of openings in each occupation. Wages based on 2004 Occupational Employment Statistics (OES) survey.
L	O*NET Score	O*NET is an acronym for the Occupational Information Network (http://www.onetcenter.org/). This data is a measure of the skills, knowledge, and abilities required for the occupations within this CIP, weighted by the number of openings in each occupation. The numerical score for each comparative occupational descriptor in the O*NET Knowledge, Skills, and Abilities data files were summed for each occupation. See Sources note below for more information.
M	Growth Rate	The two-year projected rate of growth in employment of the occupations in this CIP, weighted by the number of openings in each occupation. This number could be negative but usually is not. Occupational growth rate is from the 2004-2006 Occupational Projections produced by the AzDES Research Administration.
N	Turnover Ratio	This is the projected number of annual openings due to growth divided by the projected number of annual openings due to replacement (like retirements, quits, promotions, etc.). Higher ratios indicate lower turnover. Based on the 2004-2006 occupational projections data.
O	BLS Education & Training Code	The job training and educational levels as assigned by the Bureau of Labor Statistics (BLS). See detailed descriptions of the BLS codes on page two of these notes. Note that a higher code number indicates a lower amount of education or training time.

Calculation method	
1	Hourly wages were calculated by dividing annual wages by 2080.
2	The O*NET score was first calculated by occupation using the SOC (Standard Occupational Code). The scores for each 6-digit SOC were calculated by averaging the scores for the 8-digit O*NET SOC's that comprise each 6-digit SOC.
3	The field of occupations was restricted to those whose BLS Training and Educational code was between 6 and 11 (occupations which require 2 years of training or less.) Note that the lower the training and educational time requirement, the higher the code numbers (see below).
4	Scores by CIP (Classification of Instructional Programs) (except openings) were calculated by taking an openings-weighted average of the occupations in the CIP. For occupations appearing in more than one CIP, openings were evenly distributed among the CIP.
5	Percentiles were calculated for each statistic shown. In case of a tie, the same percentile was assigned to all CIP's involved in the tie.
6	The following formula determined the score for each CIP: $(3 \times \text{openings percentile} + 3 \times \text{wage percentile} + \text{O*NET percentile} + \text{growth percentile} + \text{ratio percentile}) / 9$
BLS (Bureau of Labor Statistics) Education and Training Codes	
1-5	Bachelor's degree and higher educational levels were not used for this project.
6	Associate degree
7	Post-secondary vocational training
8	Work experience in related occupation
9	Long-term on-the-job training
10	Moderate-term on-the-job training
11	Short-term on-the-job training
Sources	
1	Openings and wage data are produced by the Arizona Department of Economic Security, Research Administration, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Wages are from the 2004 Occupational Employment Statistics (OES) survey, and openings are from the 2004-2006 occupational employment projections.
2	For the O*Net score, the O*Net database version 8.0 was used. (www.onetcenter.org/database.html)
3	CIP / SOC (Standard Occupational Classification) crosswalk source: National Crosswalk Service Center, Department of Education, Des Moines IA 50319, Telephone: 515-242-5034, E-mail: NCSC@ed.state.ia.us .
4	The education and training codes are from the Bureau of Labor Statistics (BLS) website at ftp://ftp.bls.gov/pub/special.requests/ep/optddata/optd0212.txt
Questions and Comments	
	Direct questions or comments to Rick Van Sickle, 602-542-6481, John Graeflin, 602-542-6492, or Don Wehbey, 602-542-3686, at Research Administration, Arizona Department of Economic Security.